

**CLAIMS:**

What is claimed is:

- 1 1. A storage library, comprising:
  - 2 at least one array of storage cells;
  - 3 at least one guide rail running along the storage
  - 4 cells;
  - 5 at least one robot coupled to the guide rail,
  - 6 wherein the robot moves along the guide rail and can
  - 7 manipulate objects within the storage cells;
  - 8 at least one power source that supplies power to the
  - 9 robot; and
  - 10 at least one controller that controls the movement
  - 11 of the robot;
  - 12 wherein the robot receives uninterrupted power and
  - 13 control signals from the power source and controller
  - 14 directly through the guide rail, exclusive of other
  - 15 components in the library;
  - 16 wherein the guide rail may form a complex path,
  - 17 including a path that takes the robot out of the line of
  - 18 sight of the controller, while maintaining uninterrupted
  - 19 power and control signals to the robot.
- 1 2. The storage library according to claim 1, further
- 2 comprising an enclosure.
- 1 3. The storage library according to claim 1, further
- 2 comprising a plurality of enclosures containing storage
- 3 cell arrays, wherein a plurality of guide rails connect

4 the plurality of enclosures, and wherein the robot  
5 receives uninterrupted power and control signals from the  
6 power source and controller directly through the guide  
7 rails, exclusive of other components in the library.

1 4. The storage library according to claim 1, wherein  
2 the storage cell array and guide rails are mounted on a  
3 wall.

1 5. The storage library according to claim 1, further  
2 comprising a plurality of robots.

1 6. The storage library according to claim 1, further  
2 comprising a plurality of guide rails.

1 7. A storage library, comprising:  
2 a plurality of enclosures, wherein the enclosures  
3 contain storage cell arrays and robots coupled to guide  
4 rails, wherein the robots can manipulate objects within  
5 the storage cells, and wherein the guide rails run along  
6 the storage cell arrays and connect the enclosures;  
7 at least one power source that supplies power to the  
8 robots; and  
9 at least one controller that controls the movement  
10 of the robots;  
11 wherein the robots receive uninterrupted power and  
12 control signals from the power source and controller  
13 directly through the guide rails, exclusive of other  
14 components in the library;

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15       wherein the guide rails may form complex paths,  
16   including paths that take the robots out of the line of  
17   sight of the controller, while maintaining uninterrupted  
18   power and control signals to the robots.